

Comparisons of Job Characteristics

Focus Occupation: [Helpers--Pipelayers, Plumbers, Pipefitters, and Steamfitters \(47-3015\)](#)

Associated Occupation: [Plumbers, Pipefitters, and Steamfitters \(47-2152\)](#)

[Compare Knowledge](#)

[Compare Skills](#)

[Compare Abilities](#)

[Compare Detailed Work Activities](#)

[Compare Tools and Technologies](#)

| | |
|----|--|
| << | Focus occupation element is much lower |
| < | Focus occupation element is lower |
| 0 | Focus occupation element is at a similar level |
| > | Focus occupation element is at a higher level |
| >> | Focus occupation element is at a much higher level |

Knowledge

Similarity of Focus Occupation to Associated Occupation: 92

Focus Occupation: [Helpers--Pipelayers, Plumbers, Pipefitters, and Steamfitters \(47-3015\)](#)

Associated Occupation: [Plumbers, Pipefitters, and Steamfitters \(47-2152\)](#)

| Associated Occupation's Key Knowledge Elements | Average Rating, All Occupations | Associated Occupation's Rating | Focus Occupation's Rating | | Evaluation of Focus Occupation |
|--|---------------------------------|--------------------------------|---------------------------|----|---|
| Mechanical | 6.8 | 17.0 | 12.8 | << | Extensive education and/or training may be required |
| Building and Construction | 4.0 | 16.6 | 14.3 | < | Expanded education and/or training may be required |
| Design | 5.2 | 11.2 | 8.0 | << | Extensive education and/or training may be required |
| Mathematics | 9.2 | 11.0 | 10.8 | 0 | Current knowledge level may be sufficient |
| Physics | 4.3 | 9.6 | 5.7 | << | Extensive education and/or training may be required |
| Engineering and Technology | 5.7 | 9.1 | 7.2 | < | Expanded education and/or training may be required |

The maximum possible rating is 25.

Source: Alaska Department of Labor and Workforce Development, Research and Analysis Section analysis of O*NET (Occupation Information Network) data.

Skills

Similarity of Focus Occupation to Associated Occupation: 70

Focus Occupation: [Helpers--Pipelayers, Plumbers, Pipefitters, and Steamfitters \(47-3015\)](#)

Associated Occupation: [Plumbers, Pipefitters, and Steamfitters \(47-2152\)](#)

| Associated Occupation's Key Skills Elements | Average Rating, All Occupations | Associated Occupation's Rating | Focus Occupation's Rating | | Evaluation of Focus Occupation |
|---|---------------------------------|--------------------------------|---------------------------|----|--|
| Operation and Control | 5.4 | 8.7 | 5.0 | << | Extensive development of skills in this area may be required |
| Quality Control Analysis | 5.9 | 8.7 | 5.6 | << | Extensive development of skills in this area may be required |
| Repairing | 3.4 | 8.4 | 7.7 | 0 | Current skill level may be sufficient |
| Troubleshooting | 4.5 | 8.4 | 5.1 | << | Extensive development of skills in this area may be required |

| | | | | | |
|-----------------------|-----|-----|-----|----|--|
| Equipment Maintenance | 3.5 | 7.5 | 4.7 | << | Extensive development of skills in this area may be required |
| Equipment Selection | 3.3 | 6.0 | 5.2 | < | A higher skill level may be required |
| Installation | 1.7 | 5.5 | 5.0 | < | A higher skill level may be required |

The maximum possible rating is 25.

Source: Alaska Department of Labor and Workforce Development, Research and Analysis Section analysis of O*NET (Occupation Information Network) data.

| Abilities | | Similarity of Focus Occupation to Associated Occupation: 82 | | | |
|--|---------------------------------|---|---------------------------|--------------------------------|--|
| Focus Occupation: Helpers--Pipelayers, Plumbers, Pipefitters, and Steamfitters (47-3015) Associated Occupation: Plumbers, Pipefitters, and Steamfitters (47-2152) | | | | | |
| Associated Occupation's Key Abilities Elements | Average Rating, All Occupations | Associated Occupation's Rating | Focus Occupation's Rating | Evaluation of Focus Occupation | |
| Arm-Hand Steadiness | 6.8 | 11.8 | 8.5 | << | Extensive improvement in abilities may be required |
| Extent Flexibility | 4.8 | 11.5 | 11.0 | 0 | Current ability level may be sufficient |
| Visualization | 7.5 | 11.2 | 8.5 | << | Extensive improvement in abilities may be required |
| Finger Dexterity | 7.6 | 11.1 | 6.3 | << | Extensive improvement in abilities may be required |
| Multilimb Coordination | 6.0 | 11.1 | 7.5 | << | Extensive improvement in abilities may be required |
| Gross Body Equilibrium | 3.2 | 8.0 | 6.1 | < | Some improvement in abilities may be required |
| Gross Body Coordination | 3.9 | 7.4 | 5.8 | < | Some improvement in abilities may be required |
| Speed of Limb Movement | 3.2 | 6.3 | 4.5 | << | Extensive improvement in abilities may be required |
| Spatial Orientation | 2.7 | 5.8 | 4.0 | << | Extensive improvement in abilities may be required |

The maximum possible rating is 25.

Source: Alaska Department of Labor and Workforce Development, Research and Analysis Section analysis of O*NET (Occupation Information Network) data.

| Activities that Both Occupations Have in Common | | Similarity of Focus Occupation to Associated Occupation: 93 |
|--|-------------------------|---|
| Focus Occupation: Helpers--Pipelayers, Plumbers, Pipefitters, and Steamfitters (47-3015) Associated Occupation: Plumbers, Pipefitters, and Steamfitters (47-2152) | | |
| Work Activities | Exclusivity of Activity | |
| Adhere to safety procedures | 12 | |
| Apply adhesives, caulking, sealants, or coatings | 45 | |
| Assemble and install pipe sections, fittings, or plumbing fixtures | 71 | |
| Build or repair structures in construction, repair, or manufacturing setting | 54 | |
| Clean equipment or machinery | 20 | |
| Clean rooms or work areas | 30 | |
| Cut, bend, or thread pipe for gas, air, hydraulic, or water lines | 84 | |

| | |
|---|----|
| Cut, shape, fit, or join wood or other construction materials | 58 |
| Fabricate, assemble, or disassemble manufactured products by hand | 11 |
| Measure and mark reference points or cutting lines on workpieces | 66 |
| Move or fit heavy objects | 8 |
| Repair or replace gas, steam, sewer, or water piping or fixtures | 82 |
| Use acetylene welding/cutting torch | 54 |
| Use basic plumbing techniques | 72 |
| Use hand or power tools | 2 |
| Use measuring devices in construction or extraction work | 41 |
| Use pipe fitting equipment | 80 |

Not all positions in these occupations will necessarily perform all of the listed activities. The exclusivity rating is an indication of how unique the activity is amongst all occupations. The maximum rating is 100. High scores indicate that only a small number of occupations engage in that activity.

Source: Alaska Department of Labor and Workforce Development, Research and Analysis Section analysis of O*NET (Occupation Information Network) data.

Tools and Technologies that Both Occupations Have in Common

Similarity of Focus
Occupation to Associated
Occupation: 95

Focus Occupation: Helpers--Pipelayers, Plumbers, Pipefitters, and Steamfitters (47-3015)
Associated Occupation: Plumbers, Pipefitters, and Steamfitters (47-2152)

| Tools and Technologies | Exclusivity |
|---|-------------|
| Acceleration and vibration measuring instruments | 56 |
| Aerial lifts | 13 |
| Bandsaws and accessories | 26 |
| Cameras | 2 |
| Cleaning equipment | 11 |
| Compressors | 9 |
| Cutting and crimping and punching tools | 3 |
| Dispensing tools | 6 |
| Drilling and operation machinery | 29 |
| Earth moving machinery | 11 |
| Electrical measuring and testing equipment | 7 |
| Face and head protection | 7 |
| Fall protection | 16 |
| Fastener setting tools | 12 |
| Fluid and gas regulators | 70 |
| Forming tools | 2 |
| Gas analyzers and monitors | 10 |
| Holding and clamping tools | 3 |
| Humidity and moisture measuring instruments | 15 |
| Indicating and recording instruments | 2 |
| Ladders and scaffolding | 6 |
| Length and thickness and distance measuring instruments | 2 |
| Lifting equipment and accessories | 3 |
| Machine tools | 7 |
| Marking tools | 11 |
| Measuring and layout tools | 3 |

| | |
|--|----|
| Metal bending and forming machinery | 17 |
| Metal fabricating dies | 80 |
| Metals and metallurgy and structural materials testing instruments | 15 |
| Non destructive examination equipment | 13 |
| Passenger motor vehicles | 13 |
| Personal communication devices | 2 |
| Pneumatic tools | 8 |
| Power generators | 16 |
| Power tools | 2 |
| Pressure measuring and control instruments | 10 |
| Product and material transport vehicles | 13 |
| Prying and bending tools | 10 |
| Pumps | 9 |
| Rough and finishing tools | 5 |
| Sampling equipment | 12 |
| Soldering and brazing and welding machinery and supplies | 6 |
| Special tooling fixtures | 16 |
| Surveillance and detection equipment | 11 |
| Temperature and heat measuring instruments | 6 |
| Tool attachments and accessories | 12 |
| Transportation related equipment and instruments | 29 |
| Wrenches and drivers | 2 |

Not all positions in these occupations will necessarily use all of the listed tools and technologies. The exclusivity rating is an indication of how unique the tool or technology is amongst all occupations. The maximum rating is 100. High scores indicate that only a small number of occupations use that tool or technology.

Source: Alaska Department of Labor and Workforce Development, Research and Analysis Section analysis of O*NET (Occupation Information Network) data.